

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): An image forming apparatus having a latent carrier, a charging device configured to charge a surface of the latent carrier, an exposure device configured to expose a surface of the latent carrier for forming a latent image, and a transfer device provided to transfer a developed toner image on the latent carrier to a recording medium, comprising:

a developing device having a developer carrier, the developer carrier configured to replenish the developer to the latent carrier;

a pooling portion configured to pool a two-component developer, the two-component developer including:

an agitating device, the agitating device configured to agitate the two-component developer in the pool portion; and

a first measurement device and a second measurement device configured to measure first and second developer characteristics having first and second values, respectively, the first characteristic being different from the second characteristic, the first measurement device having an operation principle different from the second measurement device,

~~wherein the first and second measurement devices compare the first and second characteristics to determine a deterioration rate of the two-component developer is~~
determined based on detection results of the first and second measurement devices.

Claim 2 (Original): The image forming apparatus of Claim 1, wherein the first measurement device is a developer reflection intensity sensor.

Claim 3 (Original): The image forming apparatus of Claim 1, wherein the second measurement device is a developer magnetic permeability sensor.

Claim 4 (Previously Presented): The image forming apparatus of Claim 1, wherein the second measurement device measures a torque of the agitating device.

Claim 5 (Original): The image forming apparatus of Claim 1, wherein the second measurement device measures an electric resistance of the developer.

Claim 6 (Previously Presented): The image forming apparatus of Claim 1, wherein an image forming condition is configured to be changed according to a determined deterioration rate of developer.

Claim 7 (Original): The image forming apparatus of Claim 6, wherein the image forming condition is a charging bias value of the charging device.

Claim 8 (Original): The image forming apparatus of Claim 6, wherein the image forming condition is an exposure power of the exposure device.

Claim 9 (Original): The image forming apparatus of Claim 6, wherein the image forming condition is a developing bias value of the developing device.

Claim 10 (Original): The image forming apparatus of Claim 6, wherein the image forming condition is a rotating speed of the developer carrier.

Claim 11 (Previously Presented): The image forming apparatus of Claim 6, wherein the image forming condition is configured to change to negate an affection of deteriorated developer.

Claim 12 (Previously Presented): The image forming apparatus of Claim 1, wherein the developer in the developing device is configured to replace the developer according to the determined deterioration rate of the developer.

Claim 13 (Original): The image forming apparatus of Claim 12, further comprising:
a toner replenishing device, the toner replenishing device configured to provide new toner to the developing device responsive to toner consumption.

Claim 14 (Original): The image forming apparatus of Claim 12, further comprising:
a new developer replenishing device, the new developer replenishing device configured to provide the new developer to the developing device, wherein the new developer is proportioned with a magnetic carrier and non-magnetic toner properly;

a discharging device, the discharging device configured to discharge a deteriorated developer;

wherein the new developer replenishing device is configured to provide the new developer to the developing device after discharging the deteriorated developer by the discharging device.

Claim 15 (Previously Presented): The image forming apparatus of Claim 1, further comprising:

a notice device, the notice device configured to notify the need to replace the developer in the developing device according to the determined deterioration rate of the developer.

Claim 16 (Original): The image forming apparatus of Claim 15, wherein the notice device is configured to show a notice on an operator panel.

Claim 17 (Original): The image forming apparatus of Claim 15, wherein the notice device is configured to transmit information to a control center via a communication line.